

DIVISION 10 - SECTION 10 11 00 - VISUAL DISPLAY SURFACES

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. Section Includes:
 - 1. Porcelain enamel steel markerboards
 - 2. Tackboards

1.02 REFERENCED STANDARDS

- A. American Society for Testing Materials
 - 1. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wires, Profiles and Tubes.
- B. Porcelain Enamel Institute
 - 1. PEI-1002 Manual and Performance Specifications for Porcelain Enamel Writing Surfaces
- C. GREENGUARD Environmental Institute
 - 1. GREENGUARD Certified. UL2818-2013 Standard for Chemical Emissions for Building Materials Finishes and Furnishings.
 - 2. GREENGUARD Gold Certified. UL2818-2013 Gold Standard for Chemical Emissions for Building Materials Finishes and Furnishings.

1.03 SUBMITTALS

- A. Shop Drawings: Provide shop drawings for each type of visual display board required.
- B. Product Data: Provide technical data for materials specified. Include Material Safety Data Sheets, when applicable.
- C. Samples and color charts: Provide Manufacturer's color charts and composition samples of face, core, backing and trim to illustrate finish, color and texture, where required.
- D. Manufacturer's Instructions: Provide Manufacturer's installation and cleaning instructions.

1.04 QUALITY ASSURANCE

- A. Provide all items in this section as manufactured by: Claridge Products and Equipment, Inc., Harrison, Arkansas 72602-0910, Phone: 870/743-2200 Fax: 870/743-1908
- B. Operation and Maintenance: Include data on regular cleaning, stain removal, and precautions.
- C. Product Certifications: Provide GREENGUARD/GREENGUARD Gold certificates for markerboard surfaces, as applicable

1.05 PROJECT CONDITIONS

- A. Field measure prior to preparation of shop drawings and fabrication to ensure proper fit.
- B. Comply with manufacturer's recommendations for climatizing area for interior moisture and temperature to approximate normal occupied conditions.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delay.
- B. Delivery: Deliver materials in original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer.

1.07 WARRANTY

- A. Submit a "Life of the Building" warranty, stating that under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations, Claridge porcelain enamel steel LCS markerboard writing surfaces are guaranteed for the life of the building. Guarantee covers replacement of defective boards but does not include cost of removal or reinstallation.
- B. Submit a standard warranty, stating that when installed in accordance with manufacturer's instructions and recommendations, Claridge tackboards are guaranteed for one year against defects in materials and workmanship. Guarantee does not cover normal wear and tear, improper handling, any misuse, or any defects caused by vandalism or subsequent abuse. Guarantee covers replacement of defective material but does not include cost of removal or reinstallation.
- C. Writing Surface Warranty Period: (Specify term) ____ years commencing on Date of Substantial Completion.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Visual Display Board Manufacturer: Claridge Products and Equipment, Inc., P. O. Box 910, Harrison, AR 72602; Telephone: (870) 743-2200; Fax: (870) 743-1908; E-Mail: claridge@claridgeproducts.com; web site: www.claridgeproducts.com.

2.02 PORCELAIN ENAMEL STEEL MARKERBOARD MATERIALS

- A. Writing Surface Face Sheet: Manufactured in accordance with Porcelain Enamel Institute's specification.
 1. Shall be enameling grade cold rolled steel.
 2. Enameling grade steel shall be coated with LCS³ Porcelain Enamel
 - a. 3-Coat process shall include:
 - i. Bottom Ground Coat – 1.5 to 2.2 mils
 - ii. Top Ground Coat – 2.0 to 2.8 mils
 - iii. Top Cover (Color) Coat – 3.0 to 4.0 mils
 3. Firing Temperature: Enamel shall be fired at lowest possible temperatures to reduce steel and porcelain stresses and achieve superior enamel and hardness.
 4. Color: As selected by architect from manufacturer's standards. Color charts furnished on request. NOTE: LCS³ No. 100 White can be used as a projection surface. Use with dry-erase markers.
- B. Claridge Factory Framed Markerboards:
 1. Face Sheet: (Specify LCS³ porcelain enamel steel Markerboard).
 2. Core Material: (Specify 7/16" MDF - medium density fiberboard).
 3. Panel Backing: (Specify Moisture Barrier Back).
 4. Series: (Specify Concept Series)
 5. Size: (Specify writing surface panel length and height).
 6. Color: (Specify color(s) from manufacturer's standard colors.). Color charts furnished on request.

2.03 TACKBOARDS

- A. Materials for Tackboards

1. Claridge Cork: Composed of ¼" thick self-healing, burlap backed cork laminated to a ¼" hardboard backing
 2. Fabrics: Select from pre-approved Guilford, Carnegie and Maharam fabrics.
- B. Factory Framed Tackboards
1. Tack Surface: (Specify Claridge Cork or Fabric type, pattern and color)
 2. Series: (Specify Concept Series)
 3. Size: (Specify tack surface panel length and height)
 4. Color: (Specify color from manufacturer's standards. Color charts furnished on request.)

2.04 ALUMINUM TRIM

- A. Trim shall be 6063 alloy grade aluminum with T5 tempering in accordance with ASTM B221 and shall have a 201-R1 satin anodize finish. (Color Anodize and Powder Coat paint finishes optional.)
1. Factory-Built Trim:
 - a. Series: (Specify Concept Series with 5/16" wide trim face; approx. 1/8" trim depth)
 - b. Finish: (Specify finish - Satin Anodize standard).
- B. Accessories:
1. Marker Tray (provided)
 - a. Tray width: Approx. 2" wide
 - b. Tray Shape: Sweeping curve, approx. 3/8" deep
 2. Optional Accessories:
 - a. Dry-Erase markers and Microfiber Eraser Cloth

2.03 FABRICATION

- A. Shop assembly: (Specify factory assembled or field assembled chalkboard, markerboard, and tackboard units).

PART 3 - EXECUTION

3.01 PROJECT CONDITIONS

- A. Verify before installation that interior moisture and temperature approximate normal occupied conditions.
- B. Verify that wall surfaces are prepared and ready to receive boards.

3.02 INSTALLATION

- A. Deliver factory built units completely assembled and of dimensions shown in details and in accordance with manufacturer's shop drawings as approved by the architect.
- B. Follow manufacturer's instructions for storage and handling of units before installation.
- C. Do not install boards on damp walls or in damp and humid weather without heat in the building.
- D. Install level and plumb, keeping perimeter trim straight in accordance with manufacturer's recommendations.

3.03 ADJUST AND CLEAN

- A. Verify that all accessories are installed as required for each unit.
- B. At completion of work, clean surfaces and trim in accordance with manufacturer's recommendations, leaving all materials ready for use.